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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/694,029

10/28/2003

Nam-Il Cho

1572.1154

3878

21171

7590

07/28/2005

STAAS & HALSEY LLP  
 SUITE 700  
 1201 NEW YORK AVENUE, N.W.  
 WASHINGTON, DC 20005

EXAMINER

STERLING, AMY JO

ART UNIT

PAPER NUMBER

3632

DATE MAILED: 07/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/694,029	<b>Applicant(s)</b> CHO ET AL.	
	<b>Examiner</b> Amy J. Sterling	<b>Art Unit</b> 3632	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 02 May 2005.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,3-13,17-21,29-39 and 41 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 8-13 and 18-20 is/are allowed.
- 6) ☒ Claim(s) 1,3-5,17,21,29,32-39 and 41 is/are rejected.
- 7) ☒ Claim(s) 6,7,30 and 31 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>7/1/05</u> . | 6) <input type="checkbox"/> Other: _____  |

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### **DETAILED ACTION**

This is the **Final Office Action** for application number 10/694,029 Display Apparatus, filed on 10/28/05. Claims 1, 3-13, 17-21, 29-39 and 41 are pending. This **Final Office Action** is in response to applicant's reply dated 5/2/05. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Applicant's amendment necessitated any new ground(s) of rejection presented in this Office action.

### ***Claim Rejections - 35 USC § 102***

Claims 1, 5, 17, 21, 29, 32, 35-39 and 41 are rejected under 35 U.S.C. 102(e) as being anticipated by United States Patent Publication No. 2002/0011544 to Bosson.

The publication to Bosson teaches a display apparatus having a display body (1) having first screw holes, a stand (3) and a hinge assembly, the hinge assembly having a tilting hinge (5) provided between the display body and the stand (3), a pivoting hinge (4), with a pivoting shaft (96) that projects from the pivoting bracket toward the pivoting support bracket and a pivoting accommodating part (95) into which the pivot shaft (96) is inserted, provided between the display body and the tilting hinge (5) having a tilting support bracket (70) having two ends, each having a bolt accommodating part (74), wherein when the tilting bracket engages the tilting support bracket, the bolt accommodating parts align and a screw bolt (77) passes through the bolt accommodating parts to secure the tilting bracket and the tilting support bracket

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together and to rotate the display around the screw bolt, the tilting support bracket (70) having a lower part engaged to a swiveling hinge (6) and a tilting bracket (83) engaged with the pivoting hinge with the pivoting hinge and rotationally engaged to the tilting support bracket (70), wherein the pivoting hinge has a pivoting bracket (95) engaged to the display body and pivoting support bracket (80, 90) rotationally engaged to the pivoting bracket and engages the tilting hinge (5), a swiveling hinge (6) having a swiveling support bracket (2A, B) and a swiveling bracket (42) having a lower part swivelably engaged with the swiveling support bracket (2A, B) and an upper part engaged with the tilting hinge provided between the tilting hinge (5) and the stand (3) and a body bracket (98) having second screw holes formed in accordance with the VESA FDMI standard, detachably engaged to a rear of the display body and engaged with the pivoting bracket. Bosson also discloses wherein the tilting bracket has a pair of stoppers (ends of 61), each stopper having a face and a predetermined angle is formed between the faces and one end of the tilting support bracket has a tilting projection (72) that is accommodated between the face, and angles the faces to limit the tilt angle of the display by the size and range of angles.

***Claim Rejections - 35 USC § 103***

Claims 3, 4, 33 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over 2002/0011544 to Bosson as applied to claims 1 and 29-32 and in view of United States Patent No. 6189842 to Bergeron Gull et al.

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Bosson discloses the basic inventive concept with the exception that it does not disclose that the pivoting support bracket is made from brass or plastic. Bosson does not specifically disclose a nut with the screw bolt that would frictionally adjust the device.

Bergeron Gull et al. discloses a pivoting support bracket (208, 218) made of brass or plastic (See Col. 5, lines 60 and 61 for material selection), used for the material strength properties. Bergeron Gull et al. also discloses a nut (264) used to secure a screw bolt to the desired device by use of friction. Therefore it would have been obvious to one of ordinary skill in the art to have made the pivoting support bracket of brass or plastic in order to have a strong device and to have used a nut with a screw bolt in order to secure the bolt to the desired device and to adjust the frictional force between the desired items.

### ***Response to Arguments***

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

### ***Allowable Subject Matter***

Claims 6, 7 and 30-31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 8-13 and 18-20 are allowed.

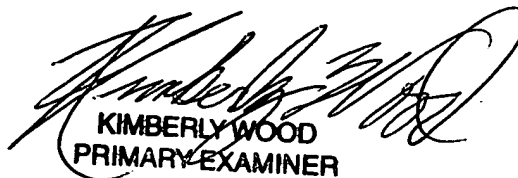
The prior art does show that the pivoting hinge includes a first snap ring engaged to a tapered end part of the pivoting shaft forcing the support bracket toward the pivoting bracket with a force that is proportional to the taper of the tapered end of the shaft. The prior art also does not show a ball flange located eccentrically from a pivoting axis of the pivoting support bracket and the pivoting bracket having a ball guide part in the shape of a circular arc having a predetermined angle, recessed from a surface of the pivoting bracket, wherein the location of the ball guide part corresponds to the ball flange. The prior art also does not teach a coil spring which pushes a ball of the ball guide toward the ball guide part using an elastic force or a second snap ring engaged to a tapered end part of the swiveling shaft, with a that is proportional to the taper part of the shaft and a snap ring for the tilting bracket with a snap ring accommodating part. The prior art also does not teach wherein there is a second snap ring engaged to an end part of the swiveling shaft, wherein the end part of the swiveling shaft is a taper part, wherein the second snap ring engages the swiveling shaft at the taper part, and the second snap ring bears on the swiveling bracket and forces the swiveling bracket toward the swiveling support bracket with a force that is proportional to a taper of the taper part.

### ***Conclusion***

**THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action. Any inquiry concerning this communication should be directed to Amy J. Sterling at telephone number 571-272-6823. The examiner can normally be reached (M-F 8 a.m.-5:00 p.m.). If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Robert Olszewski can be reached at 571-272-6788. The fax machine number for the Technology center is 7571-273-8300 (formal amendments) or 571-273-6823 (informal amendments and communications). Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist at 571-272-3600.

  
AUSAmy J. Sterling  
7/19/05  
KIMBERLY WOOD  
PRIMARY EXAMINER